# Cband8 – an EXCEL macro to convert B&K line numbers to kHz

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Sub Cband8()
  '
  'Written by: Richard J. Fridrich 05AU99
  '
  ' For %-ile Freq's from B&K Data which uses 8 lines per band for a total of 192 lines per pattern
  ' Replaces line numbers (integers from 1 to 192) with frequency values (kHz)
  '
Dim Msg
Dim Cb192(192)

Cb192(1) = 0.02
Cb192(2) = 0.03
Cb192(3) = 0.04
Cb192(4) = 0.05
Cb192(5) = 0.059
Cb192(6) = 0.069
Cb192(7) = 0.079
Cb192(8) = 0.088    ' 1

Cb192(9) = 0.1
Cb192(10) = 0.113
Cb192(11) = 0.125
Cb192(12) = 0.137
Cb192(13) = 0.15
Cb192(14) = 0.162
Cb192(15) = 0.175
Cb192(16) = 0.187  ' 2

Cb192(17) = 0.2
Cb192(18) = 0.212
Cb192(19) = 0.225
Cb192(20) = 0.237
Cb192(21) = 0.25
Cb192(22) = 0.262
Cb192(23) = 0.275
Cb192(24) = 0.288  ' 3

Cb192(25) = 0.301
Cb192(26) = 0.314
Cb192(27) = 0.328
Cb192(28) = 0.341
Cb192(29) = 0.354
Cb192(30) = 0.367
Cb192(31) = 0.38
Cb192(32) = 0.394  ' 4

Cb192(33) = 0.407
Cb192(34) = 0.42
Cb192(35) = 0.433
Cb192(36) = 0.446
Cb192(37) = 0.46
Cb192(38) = 0.473
Cb192(39) = 0.487
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Cb192(40) = 0.501  ' 5

Cb192(41) = 0.515
Cb192(42) = 0.528
Cb192(43) = 0.542
Cb192(44) = 0.556
Cb192(45) = 0.571
Cb192(46) = 0.586
Cb192(47) = 0.602
Cb192(48) = 0.617  ' 6

Cb192(49) = 0.633
Cb192(50) = 0.649
Cb192(51) = 0.664
Cb192(52) = 0.68
Cb192(53) = 0.695
Cb192(54) = 0.711
Cb192(55) = 0.729
Cb192(56) = 0.747  ' 7

Cb192(57) = 0.766
Cb192(58) = 0.784
Cb192(59) = 0.802
Cb192(60) = 0.82
Cb192(61) = 0.838
Cb192(62) = 0.857
Cb192(63) = 0.875
Cb192(64) = 0.893  ' 8

Cb192(65) = 0.913
Cb192(66) = 0.934
Cb192(67) = 0.955
Cb192(68) = 0.976
Cb192(69) = 0.997
Cb192(70) = 1.02
Cb192(71) = 1.04
Cb192(72) = 1.06      ' 9

Cb192(73) = 1.08
Cb192(74) = 1.1
Cb192(75) = 1.12
Cb192(76) = 1.15
Cb192(77) = 1.17
Cb192(78) = 1.2
Cb192(79) = 1.22
Cb192(80) = 1.25 ' 10

Cb192(81) = 1.27
Cb192(82) = 1.3
Cb192(83) = 1.32
Cb192(84) = 1.35
Cb192(85) = 1.37
Cb192(86) = 1.4
Cb192(87) = 1.43
Cb192(88) = 1.46 ' 11
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Cb192(89) = 1.49
Cb192(90) = 1.52
Cb192(91) = 1.54
Cb192(92) = 1.57
Cb192(93) = 1.6
Cb192(94) = 1.63
Cb192(95) = 1.66
Cb192(96) = 1.69 ' 12

Cb192(97) = 1.72
Cb192(98) = 1.75
Cb192(99) = 1.78
Cb192(100) = 1.81
Cb192(101) = 1.85
Cb192(102) = 1.88
Cb192(103) = 1.92
Cb192(104) = 1.96 ' 13

Cb192(105) = 1.99
Cb192(106) = 2.03
Cb192(107) = 2.07
Cb192(108) = 2.1
Cb192(109) = 2.14
Cb192(110) = 2.18
Cb192(111) = 2.21
Cb192(112) = 2.25 ' 14

Cb192(113) = 2.3
Cb192(114) = 2.35
Cb192(115) = 2.4
Cb192(116) = 2.45
Cb192(117) = 2.5
Cb192(118) = 2.55
Cb192(119) = 2.6
Cb192(120) = 2.65 ' 15

Cb192(121) = 2.7
Cb192(122) = 2.75
Cb192(123) = 2.8
Cb192(124) = 2.86
Cb192(125) = 2.93
Cb192(126) = 2.99
Cb192(127) = 3.05
Cb192(128) = 3.11 ' 16

Cb192(129) = 3.18
Cb192(130) = 3.24
Cb192(131) = 3.3
Cb192(132) = 3.36
Cb192(133) = 3.43
Cb192(134) = 3.49
Cb192(135) = 3.55
Cb192(136) = 3.64 ' 17

Cb192(137) = 3.72
Cb192(138) = 3.81

Cb192(139) = 3.89
Cb192(140) = 3.98
Cb192(141) = 4.06
Cb192(142) = 4.14
Cb192(143) = 4.23
Cb192(144) = 4.31 ' 18

Cb192(145) = 4.4
Cb192(146) = 4.48
Cb192(147) = 4.59
Cb192(148) = 4.7
Cb192(149) = 4.82
Cb192(150) = 4.93
Cb192(151) = 5.05
Cb192(152) = 5.16 ' 19

Cb192(153) = 5.28
Cb192(154) = 5.39
Cb192(155) = 5.5
Cb192(156) = 5.62
Cb192(157) = 5.77
Cb192(158) = 5.91
Cb192(159) = 6.05
Cb192(160) = 6.2  ' 20

Cb192(161) = 6.34
Cb192(162) = 6.49
Cb192(163) = 6.63
Cb192(164) = 6.77
Cb192(165) = 6.92
Cb192(166) = 7.06
Cb192(167) = 7.24
Cb192(168) = 7.44 ' 21

Cb192(169) = 7.64
Cb192(170) = 7.83
Cb192(171) = 8.03
Cb192(172) = 8.23
Cb192(173) = 8.43
Cb192(174) = 8.62
Cb192(175) = 8.82
Cb192(176) = 9.03 ' 22

Cb192(177) = 9.33
Cb192(178) = 9.64
Cb192(179) = 9.94
Cb192(180) = 10.24
Cb192(181) = 10.55
Cb192(182) = 10.85
Cb192(183) = 11.15
Cb192(184) = 11.53 ' 23

Cb192(185) = 11.92
Cb192(186) = 12.3
Cb192(187) = 12.69
Cb192(188) = 13.08

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Cb192(189) = 13.47
Cb192(190) = 13.85
Cb192(191) = 14.24
Cb192(192) = 14.63 ' 24

Msg = Msg & Chr$(10) & "The macro (Cband8) REPLACES the Percentile Frequency line number
integers with frequency values (kHz) "
Msg = Msg & Chr$(10) & "for results from Patterns using 8 lines per band (192 lines per Pattern)[B&K].  "
Msg = Msg & Chr$(10) & "IT IS RECOMMENDED that this conversion only be done on copies of the %-
ile Freq. line number results."
Msg = Msg & Chr$(10) & " "
Msg = Msg & Chr$(10) & "Do you want to continue?"

Response = MsgBox(Msg, vbYesNo, "Cband8: Conversion of Line Numbers to Frequency Values")
If Response = vbYes Then


    'Identify the Calculation Range
    startcol = Selection.Column
    numcols = Selection.Columns.Count
    startrow = Selection.Row
    numrows = Selection.Rows.Count

'Convert Line Number (Interger) to Frequency (kHz)
For R = startrow To startrow + numrows - 1
  For C = startcol To startcol + numcols - 1
    ActiveSheet.Cells(R, C).Value = Cb192(ActiveSheet.Cells(R, C).Value)
  Next C
Next R

End If

End Sub
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